INDEX OF AUTHORS AND PAPERS

PHYSICA B

Agarwal, B.K., see Harsh, O.K. 145B (1987) 45
Amoros, J., see Solana, J.R. 145B (1987) 50
Awadelkarim, O.O., Low temperature radiation damage in silicon. II. Production rates and annealing studies on p-type material 145B (1987) 39

Babiker, M., Raman scattering by longitudinal modes in ionic superlattices 145B (1987) 111
Bakker, H., see Weeber, A.W. 145B (1987) 349
Blank, D.H.A., Flokstra, J., Gerritsma, G.J., Van de Klundert, L.J.M. and Velders, G.J.M., X-ray and electron spin resonance on $YBa_2Cu_3O_{7-\delta}$ prepared by citrate synthesis (*Letter to the editor*) 145B (1987) 222
Bosman, G., see Van der Ziel, A. 145B (1987) 195
Box, P., see Van Velzen, G.D.F. 145B (1987) 101
Brehme, S. and Pickenhain, R., Investigation of the double acceptor Fe_{Ga} in GaP and $GaAs_{0.1}P_{0.9}$ by DLTS 145B (1987) 267
Brom, H.B., see Korving, W.H. 145B (1987) 299
Brouwer, R., see Salomons, E. 145B (1987) 253
Buschow, K.H.J., see Smit, H.H.A. 145B (1987) 329

Campbell, I.A., see Silva, M.T.X. 145B (1987) 165
Campbell, S.J., see Finkler, D.K-H. 145B (1987) 335
Carlin, R.L., see Paduan-Filho, A. 145B (1987) 16

De Boer, F.R., see Kadowaki, K. 145B (1987) 260
De Groot, D.G., see Salomons, E. 145B (1987) 253
De Jongh, L.J., see Korving, W.H. 145B (1987) 299
Denielou, L., see Petitet, J.P. 145B (1987) 365
Driessen, A., see Salomons, E. 145B (1987) 253

Eppenga, R., see Rompa, H.W.A.M. 145B (1987) 5

Finkler, D.K-H., Maurer, A.E., Campbell, S.J., Heck, T. and Gonser, U., Precision determination of the lattice parameters of CuAuFe alloys 145B (1987) 335
Flokstra, J., see Houwman, E.P. 145B (1987) 215
Flokstra, J., see Blank, D.H.A. 145B (1987) 222
Franse, J.J.M., see Kadowaki, K. 145B (1987) 260
Fuchikami, N., Influence of Madelung correction on the superexchange interaction 145B (1987) 171
Fujita, M., see Korving, W.H. 145B (1987) 299

Gerritsma, G.J., see Blank, D.H.A. 145B (1987) 222
Gonser, U., see Finkler, D.K-H. 145B (1987) 335
Griessen, R., see Salomons, E. 145B (1987) 253

Haag, W.J., see Weeber, A.W. 145B (1987) 349
Handel, P.H., see Van der Ziel, A. 145B (1987) 195
Harsh, O.K. and Agarwal, B.K., Double plasmon oscillations during X-ray emission 145B (1987) 45
Heck, T., see Finkler, D.K-H. 145B (1987) 335
Hemmes, H., see Salomons, E. 145B (1987) 253
Houwman, E.P., Van de Pasch, A.W.M. and Flokstra, J., Superconductivity and magnetic ordering in the mixed ternary $Er_xY_{1-x}Rh_{1.1}Sn_{3.6}$ system 145B (1987) 215
Hsieh, C.J., see Van der Ziel, A. 145B (1987) 195
Huang, Y.K., see Kadowaki, K. 145B (1987) 260
Huang, Y.K., see Kadowaki, K. 145B (1987) 1

Kadowaki, K., Van der Meulen, H.P., Klaasse, J.C.P., Van Sprang, M., Koster, J.Q.A., Roeland, L.W., De Boer, F.R., Huang, Y.K., Menovsky, A.A. and Franse, J.J.M., Coexistence of magnetism and high-T_c superconductivity in $GdBa_2Cu_3O_7$ 145B (1987) 260
Kadowaki, K., Huang, Y.K., Van Sprang, M. and Menovsky, A.A., Superconductivity at 95 K in the single-phase $YBa_2Cu_3O_{9-y}$ system 145B (1987) 1
Kailash and Kor, S.K., Damping of acoustic waves in metals at low temperatures 145B (1987) 209
Kamensky, V.G. and Kudriasheva, Zh.N., On one physical solution of the sine–Gordon equation 145B (1987) 353
Kiss, L.B. and Kleinpenning, T.G.M., On $1/f$ noise in collector current of bipolar transistors 145B (1987) 181
Kiss, L.B. and Kleinpenning, T.G.M., Interpretation of Hooge's $1/f$ noise formula 145B (1987) 185
Klaasse, J.C.P., see Kadowaki, K. 145B (1987) 260
Kleinpenning, T.G.M., see Kiss, L.B. 145B (1987) 181
Kleinpenning, T.G.M., see Kiss, L.B. 145B (1987) 185
Kleinpenning, T.G.M., Charge-control model applied to $1/f$ noise in long p^+–n diodes 145B (1987) 190
Koeman, N., see Salomons, E. 145B (1987) 253
Köhler, H.-J., see Mikolajczak, B. 145B (1987) 131
Kor, S.K., see Kailash 145B (1987) 209
Korstanje, L., see Van Velzen, G.D.F. 145B (1987) 101
Korving, W.H., Kramer, G.J., Steeman, R.A., Brom, H.B., De Jongh, L.J., Fujita, M. and Machida, K., The intermediate state of the spin-Peierls system TTF–AuBDT: a magnetic and specific heat study 145B (1987) 299
Koster, J.Q.A., see Kadowaki, K. 145B (1987) 260
Kramer, G.J., see Korving, W.H. 145B (1987) 299
Krech, W., see Meyer, H.G. 145B (1987) 137
Kudriasheva, Zh.N., see Kamensky, V.G. 145B (1987) 353

Le Dang, K., see Silva, M.T.X. 145B (1987) 165
Lebedeva, N.N., Salamov, B.G. and Zeinally, A.Kh., The effect of photoactive light on light scattering in $SrTiO_3$ 145B (1987) 205

Machida, K., see Korving, W.H. 145B (1987) 299
Maćkowiak, M., Isotope effect on high-pressure behavior of hydrogen-bonded crystals 145B (1987) 320
Mancini, F. and Noce, C., Electromagnetic properties of ferromagnetic superconducting films 145B (1987) 342

Marees, G. and Van Beelen, H., On various processes of redistribution of superfluid turbulence in capillary flow of helium II 145B (1987) 21
Marks, J., see Van der Zon, C.M.B. 145B (1987) 153
Massidda, V., Electrostatic energy of modulated dipole lattices 145B (1987) 124
Maurer, A.E., see Finkler, D.K-H. 145B (1987) 335
Menghisteab, S., see Van Dover, R.B. 145B (1987) 148
Menovsky, A.A., see Kadowaki, K. 145B (1987) 260
Menovsky, A.A., see Kadowaki, K. 145B (1987) 1
Meyer, C.H.M., see Van Velzen, G.D.F. 145B (1987) 101
Meyer, H.-G., see Mikolajczak, B. 145B (1987) 131
Meyer, H.G., Mikolajczak, B., Seidel, P. and Krech, W., Microwave-induced steps in the current–voltage characteristic of dc squids 145B (1987) 137
Mikolajczak, B., Meyer, H.-G., Seidel, P., Tietz, U.-J. and Köhler, H.-J., Theoretical investigations on series connections of Josephson junctions 145B (1987) 131
Mikolajczak, B., see Meyer, H.G. 145B (1987) 137
Mitra, N.R., see Singh, R.N. 145B (1987) 358

Noce, C., see Mancini, F. 145B (1987) 342

Paduan-Filho, A. and Carlin, R.L., Phase boundary of metamagnetic $[N(CH_3)_4]NiBr_3$ (TMNB) 145B (1987) 16
Pandey, D.K., see Singh, R.N. 145B (1987) 358
Petitet, J.P., Denielou, L. and Tufeu, R., ERRATUM to Physica 144B (1987) 320, Thermodynamic properties of molten nitrates under pressure obtained from velocity of sound 145B (1987) 365
Pickenhain, R., see Brehme, S. 145B (1987) 267
Poulis, N.J., see Van der Zon, C.M.B. 145B (1987) 153

Roeland, L.W., see Kadowaki, K. 145B (1987) 260
Rompa, H.W.A.M., Eppenga, R. and Schuurmans, M.F.H., Ab initio determinations of oscillator strengths of metals and semiconductors from ASW 145B (1987) 5

Salamov, B.G., see Lebedeva, N.N. 145B (1987) 205
Salomons, E., Hemmes, H., Scholtz, J.J., Koeman, N., Brouwer, R., Driessen, A., De Groot, D.G. and Griessen, R., Thermal expansion, compressibility and Grüneisen parameter of $YBa_2Cu_3O_x$ 145B (1987) 253
Schaf, J., see Silva, M.T.X. 145B (1987) 165
Scholtz, J.J., see Salomons, E. 145B (1987) 253
Schuurmans, M.F.H., see Rompa, H.W.A.M. 145B (1987) 5
Seidel, P., see Mikolajczak, B. 145B (1987) 131
Seidel, P., see Meyer, H.G. 145B (1987) 137
Silva, M.T.X., Schaf, J., Viccaro, P.J., Vasquez, A., Campbell, I.A., Le Dang, K. and Veillet, P., An internal oxidation effect in FeV alloys 145B (1987) 165
Singh, R.N., Pandey, D.K., Sinha, S., Mitra, N.R. and Srivastava, P.L., Thermodynamic properties of molten LiMg alloy 145B (1987) 358
Sinha, S., see Singh, R.N. 145B (1987) 358
Smit, H.H.A., Thiel, R.C. and Buschow, K.H.J., ^{155}Gd Mössbauer effect in $Gd_2Co_{14}B$ 145B (1987) 329

Solana, J.R., Amoros, J. and Villar, E., Behaviour of the equation of state of simple liquids at high pressures 145B (1987) 50
Sprenkels, J.C.M., see Van Velzen, G.D.F. 145B (1987) 101
Srivastava, P.L., see Singh, R.N. 145B (1987) 358
Steeman, R.A., see Korving, W.H. 145B (1987) 299
Svare, I., Diffusion and tunnelling of hydrogen in vanadium, niobium and tantalum 145B (1987) 281
Svare, I., Tunnelling of hydrogen in metals 145B (1987) 293

Thiel, R.C., see Smit, H.H.A. 145B (1987) 329
Tietz, U.-J., see Mikolajczak, B. 145B (1987) 131
Toledo, W., see Van Velzen, G.D.F. 145B (1987) 101
Tsay, S.-F. and Wang, S.-y., Calculation of intersubband resonance in an inversion layer on p-type Si(100) induced by a grating coupler 145B (1987) 29
Tufeu, R., see Petitet, J.P. 145B (1987) 365

Van Beelen, H., see Marees, G. 145B (1987) 21
Van de Klundert, L.J.M., see Blank, D.H.A. 145B (1987) 222
Van de Pasch, A.W.M., see Houwman, E.P. 145B (1987) 215
Van der Meulen, H.P., see Kadowaki, K. 145B (1987) 260
Van der Ziel, A., Hsieh, C.J., Handel, P.H., Van Vliet, C.M. and Bosman, G., Partition $1/f$ noise in pentodes and its quantum interpretation 145B (1987) 195
Van der Zon, C.M.B., Marks, J., Wenckebach, W.Th. and Poulis, N.J., Dynamic nuclear polarization and spin–lattice relaxation of the proton spins in $Ca(OH)_2$ 145B (1987) 153
Van Dover, R.B. and Menghisteab, S., Composition dependence of the extraordinary Hall effect in amorphous Tb_xFe_{1-x} 145B (1987) 148
Van Sprang, M., see Kadowaki, K. 145B (1987) 260
Van Sprang, M., see Kadowaki, K. 145B (1987) 1
Van Velzen, G.D.F., Sprenkels, J.C.M., Voorhoeve, J.C., Meyer, C.H.M., Toledo, W., Korstanje, L., Box, P. and Wenckebach, W.Th., The Raman electron spin–lattice relaxation process for diatomic molecules. II. Experiments in $Ca(OH)_2:O_2^-$ 145B (1987) 101
Van Velzen, G.D.F. and Wenckebach, W.Th., The Raman electron spin–lattice relaxation process for diatomic molecules. I. Theory for $Ca(OH)_2:O_2^-$ 145B (1987) 85
Van Vliet, C.M., see Van der Ziel, A. 145B (1987) 195
Vasquez, A., see Silva, M.T.X. 145B (1987) 165
Veillet, P., see Silva, M.T.X. 145B (1987) 165
Velders, G.J.M., see Blank, D.H.A. 145B (1987) 222
Viccaro, P.J., see Silva, M.T.X. 145B (1987) 165
Villar, E., see Solana, J.R. 145B (1987) 50
Voorhoeve, J.C., see Van Velzen, G.D.F. 145B (1987) 101

Wang, S.-y., see Tsay, S.-F. 145B (1987) 29
Weeber, A.W., Wester, A.J.H., Haag, W.J. and Bakker, H., The preparation of amorphous Ni–Zr alloys by different ball-milling techniques 145B (1987) 349
Wenckebach, W.Th., see Van Velzen, G.D.F. 145B (1987) 101
Wenckebach, W.Th., see Van der Zon, C.M.B. 145B (1987) 153
Wenckebach, W.Th., see Van Velzen, G.D.F. 145B (1987) 85
Wester, A.J.H., see Weeber, A.W. 145B (1987) 349

Zeinally, A.Kh., see Lebedeva, N.N. 145B (1987) 205
Zimpel, Z., A theory of the electron spin relaxation from hindered rotations in paramagnetic crystals 145B (1987) 311

PHYSICA C

Bancewicz, M. and Karwowski, J., On moment-generated spectra of atoms 145C (1987) 241
Buurman, E.P., Koning, O., Snoek, C. and Dönszelmann, A., Investigation of the $4s4p^2$ configuration in gallium 145C (1987) 236

Deng, Z., Power-dependence of strong-field ionization in an *N*-level system coupled to a continuum 145C (1987) 59
Dönszelmann, A., see Buurman, E.P. 145C (1987) 236

Estep, L. and Quarles, C.A., Atomic-field bremsstrahlung from hydrogen, helium, nitrogen and neon from 5 to 15 keV 145C (1987) 369

Glab, W.L., see Hillard, G.B. 145C (1987) 229

Hillard, G.B. and Glab, W.L., The Stark effect in hydrogen: properties of threshold resonances in the photoionization spectrum of excited parabolic states 145C (1987) 229

Karwowski, J., see Bancewicz, M. 145C (1987) 241
Khurana, C.S., see Mohan, H. 145C (1987) 249
Koning, O., see Buurman, E.P. 145C (1987) 236

Langbein, U., Lederer, F., Mihalache, D. and Mazilu, D., Nonlinear TM-polarized waves in non-Kerr media 145C (1987) 377
Lederer, F., see Langbein, U. 145C (1987) 377
Los, J., see Wahby, A.S.M. 145C (1987) 69

Mazilu, D., see Langbein, U. 145C (1987) 377
Mihalache, D., see Langbein, U. 145C (1987) 377
Mohan, H., Singh, P.S., Singh, D., Verma, H.R. and Khurana, C.S., Measurement of L-shell X-ray production cross-sections of Yb bombarded by 250–400 keV protons 145C (1987) 249

Quarles, C.A., see Estep, L. 145C (1987) 369

Singh, D., see Mohan, H. 145C (1987) 249
Singh, P.S., see Mohan, H. 145C (1987) 249
Snoek, C., see Buurman, E.P. 145C (1987) 236

Verma, H.R., see Mohan, H. 145C (1987) 249

Wahby, A.S.M. and Los, J., Diffusion in Lorentzian and quasi-Lorentzian N_2–light noble gas mixtures 145C (1987) 69
Wahby, A.S.M., Diffusion in Lorentzian and quasi-Lorentzian N_2–heavy noble gas mixtures 145C (1987) 78

ANALYTIC SUBJECT INDEX

PHYSICA B

Acoustic waves in metals
– Damping of — at low temperatures - Kailash and Kor 145B (1987) 209
Al (see *Acoustic waves in metals*) 145B (1987) 209
Al (see *Oscillator strengths*) 145B (1987) 5
AlAs (see *Oscillator strengths*) 145B (1987) 5
Amorphization (see *Ball-milling technique*) 145B (1987) 349
Ar (see *Liquids at high pressures*) 145B (1987) 50

Ball-milling technique
– The preparation of amorphous Ni–Zr alloys by different ball-milling techniques - Weeber et al. 145B (1987) 349
Band structure calculations
– Ab initio determinations of oscillator strengths of metals and semiconductors from ASW - Rompa et al. 145B (1987) 5

$Ca(OH)_2$ (see *Dynamic nuclear polarization*) 145B (1987) 153
$Ca(OH)_2$:O_2^- (see *Spin–lattice relaxation*) 145B (1987) 85
$Ca(OH)_2$:O_2^- (see *Spin–lattice relaxation*) 145B (1987) 101
$Ca(OH)_2$:O_2^- (see *Spin–lattice relaxation*) 145B (1987) 153
Charge-control model (see *Noise, 1/f*) 145B (1987) 190
Citrate synthesis (see *$YBa_2Cu_3O_{7-\delta}$*) 145B (1987) 222
Cu (see *Acoustic waves in metals*) 145B (1987) 209
Cu (see *Plasmon oscillations*) 145B (1987) 45
CuAuFe alloys
– Precision determination of the lattice parameters of — - Finkler et al. 145B (1987) 335

Defects, production rates (see *Si*) 145B (1987) 39
Diatomic molecules (see *Spin–lattice relaxation*) 145B (1987) 85
Diatomic molecules (see *Spin–lattice relaxation*) 145B (1987) 101
Diodes, long p^+–n (see *Noise, 1/f*) 145B (1987) 190
Dipoles, modulated lattices
– Electrostatic energy of modulated dipole lattices - Massidda 145B (1987) 124
DLTS (see *Fe_{Ga} double acceptor*) 145B (1987) 267
Dynamic nuclear polarization
– — and spin–lattice relaxation of the proton spins in $Ca(OH)_2$ - Van der Zon et al. 145B (1987) 153

Electron spin relaxation
– A theory of the — from hindered rotations in paramagnetic crystals - Zimpel 145B (1987) 311
Electron spin resonance (see *$YBa_2Cu_3O_{7-\delta}$*) 145B (1987) 222

Electrostatic energy (see *Dipoles, modulated lattices*) 145B (1987) 124
Equation of state (see *Liquids at high pressures*) 145B (1987) 50
$Er_{0.5}Ho_{0.5}Rh_4B_4$ (see *Magnetic superconducting films*) 145B (1987) 342
Erratum
– — to Physica 144B (1987) 320, Thermodynamic properties of molten nitrates under pressure obtained from velocity of sound - Petitet et al. 145B (1987) 365
$ErRh_4B_4$ (see *Magnetic superconducting films*) 145B (1987) 342
$Er_xY_{1-x}Rh_{1.1}Sr_{3.6}$ (see *Ternary compounds, mixed*) 145B (1987) 215

Fe_{Ga} double acceptor
– Investigation of the double acceptor Fe_{Ga} in GaP and $GaAs_{0.1}P_{0.9}$ by DLTS - Brehme and Pickenhain 145B (1987) 267
FeV alloys (see *Oxidation, internal*) 145B (1987) 165

$GaAs_{0.1}P_{0.9}$ (see *Fe_{Ga} double acceptor*) 145B (1987) 267
GaAs (see *Oscillator strengths*) 145B (1987) 5
$GaAs/Ga_{1-x}Al_xAs$ (see *Ionic superlattices*) 145B (1987) 111
GaP (see *Fe_{Ga} double acceptor*) 145B (1987) 267
$GdBa_2Cu_3O_7$ (see *Superconductivity, high-T_c*) 145B (1987) 260
$GdCo_{14}B$ (see *Mössbauer effect, ^{155}Gd*) 145B (1987) 329
Grüneisen parameter (see *Superconductivity, high-T_c*) 145B (1987) 253

Hall effect (see *Rare earth / transition metal alloys*) 145B (1987) 148
He II
– On various processes of redistribution of superfluid turbulence in capillary flow of helium II - Marees and Van Beelen 145B (1987) 21
High pressure (see *Hydrogen-bonded crystals*) 145B (1987) 320
Hindered rotations (see *Electron spin relaxation*) 145B (1987) 311
Hydrodynamics of superfluid He II
– On various processes of redistribution of superfluid turbulence in capillary flow of helium II - Marees and Van Beelen 145B (1987) 21
Hydrogen-bonded crystals
– Isotope effect on high-pressure behavior of — - Maćkowiak 145B (1987) 320
Hydrogen diffusion
– Diffusion and tunnelling of hydrogen in vanadium, niobium and tantalum - Svare 145B (1987) 281
– Tunnelling of hydrogen in metals - Svare 145B (1987) 293

Incommensurate phases (see *Spin-Peierls transition*) 145B (1987) 299
Intersubband resonance
– Calculation of — in an inversion layer on p-type Si(100) induced by a grating coupler - Tsay and Wang 145B (1987) 29
Inversion layer (see *Subband absorption*) 145B (1987) 29
Ionic superlattices
– Raman scattering by longitudinal modes in — - Babiker 145B (1987) 111
Iron clusters (see *CuAuFe alloys*) 145B (1987) 335
Irradiated silicon (see *Si*) 145B (1987) 39
Isotope effect (see *Hydrogen-bonded crystals*) 145B (1987) 320

Josephson junctions
– Theoretical investigations on series connections of — - Mikolajczak et al. 145B (1987) 131

KMF_3(M = Mn,Co,Ni) (see *Superexchange interaction*) 145B (1987) 171
Kr (see *Liquids at high pressures*) 145B (1987) 50

Lattice parameters (see *CuAuFe alloys*) 145B (1987) 335
Light scattering
– The effect of photoactive light on — in $SrTiO_3$ - Lebedeva et al. 145B (1987) 205
LiMg alloy
– Thermodynamic properties of molten — - Singh et al. 145B (1987) 358
Lineshape (see *X-ray diffraction*) 145B (1987) 335
Liquid alloy (see *LiMg alloy*) 145B (1987) 358
Liquid crystal (see *Sine-Gordon equation*) 145B (1987) 353
Liquids at high pressures
– Behaviour of the equation of state of simple — - Solana et al. 145B (1987) 50
Longitudinal polar optical modes (see *Ionic superlattices*) 145B (1987) 111

Madelung potential (see *Superexchange interaction*) 145B (1987) 171
Magnetic interaction (see *Superexchange interaction*) 145B (1987) 171
Magnetic ordering (see *Dynamic nuclear polarization*) 145B (1987) 153
Magnetic superconducting films
– Electromagnetic properties of ferromagnetic superconducting films - Mancini and Noce 145B (1987) 342
Magnetic superconductors
– Coexistence of magnetism and high-T_c superconductivity in $GdBa_2Cu_3O_7$ - Kadowaki et al. 145B (1987) 260
Magnetic superconductors (see *Ternary compounds, mixed*) 145B (1987) 215
Magnetic susceptibility (see *$N(CH_3)_4NiBr_3$*) 145B (1987) 16
Magnetization (see *Spin-Peierls transition*) 145B (1987) 299
Magneto-optic properties (see *Rare earth / transition metal alloys*) 145B (1987) 148
Metal–insulator–semiconductor system (see *Subband absorption*) 145B (1987) 29
Metals (see *Acoustic waves in metals*) 145B (1987) 209
Metals (see *Hydrogen diffusion*) 145B (1987) 293
Metals (see *Oscillator strengths*) 145B (1987) 5
Microwave-induced characteristics (see *SQUIDs*) 145B (1987) 137
Mössbauer effect, ^{155}Gd
– ^{155}Gd Mössbauer effect in $Gd_2Co_{14}B$ - Smit et al. 145B (1987) 329
Mössbauer spectroscopy (see *Oxidation, internal*) 145B (1987) 165

Na (see *Plasmon oscillations*) 145B (1987) 45
$NaNO_2$ (see *Dipoles, modulated lattices*) 145B (1987) 124
$N(CH_3)_4NiBr_3$
– Phase boundary of metamagnetic $[N(CH_3)_4]NiBr_3$ (TMNB) - Paduan-Filho and Carlin 145B (1987) 16
Ni (see *Acoustic waves in metals*) 145B (1987) 209
Ni–Zr alloy
– The preparation of amorphous Ni–Zr alloys by different ball-milling techniques - Weeber et al. 145B (1987) 349
Niobium (see *Hydrogen diffusion*) 145B (1987) 281
Noise, 1/f
– On $1/f$ noise in collector current of bipolar transistors - Kiss and Kleinpenning 145B (1987) 181

– Charge-control model applied to $1/f$ noise in long p^+–n diodes - Kleinpenning 145B (1987) 190
– Partition $1/f$ noise in pentodes and its quantum interpretation - Van der Ziel et al. 145B (1987) 195
Noise, 1/f, Hooge's formula
– Interpretation of Hooge's $1/f$ noise formula - Kiss and Kleinpenning 145B (1987) 185

Oscillator strengths
– Ab initio determinations of — of metals and semiconductors from ASW - Rompa et al. 145B (1987) 5
Oxidation, internal
– An internal oxidation effect in FeV alloys - Silva et al. 145B (1987) 165

Paramagnetic crystals (see *Electron spin relaxation*) 145B (1987) 311
Pb (see *Acoustic waves in metals*) 145B (1987) 209
Pentodes (see *Noise, 1/f*) 145B (1987) 195
Phase diagram (see $N(CH_3)_4NiBr_3$) 145B (1987) 16
Photoactive light (see *Light scattering*) 145B (1987) 205
Plasmon oscillations
– Double — during X-ray emission - Harsh and Agarwal 145B (1987) 45

Quasi one-dimensional solids (see *Spin-Peierls transition*) 145B (1987) 299

Radiation damage (see *Si*) 145B (1987) 39
Raman process (see *Spin–lattice relaxation*) 145B (1987) 85
Raman process (see *Spin–lattice relaxation*) 145B (1987) 101
Raman scattering (see *Ionic superlattices*) 145B (1987) 111
Random walk (see *Electron spin relaxation*) 145B (1987) 311
Rare earth elements (see *Magnetic superconducting films*) 145B (1987) 342
Rare earth elements (see *Magnetic superconductors*) 145B (1987) 260
Rare earth elements (see *Mössbauer effect, ^{155}Gd*) 145B (1987) 329
Rare earth elements (see *Ternary compounds, mixed*) 145B (1987) 215
Rare earth / transition metal alloys
– Composition dependence of the extraordinary Hall effect in amorphous Tb_xFe_{1-x} - van Dover and Menghisteab 145B (1987) 148
Relaxation matrix (see *Electron spin relaxation*) 145B (1987) 311
Rhodium stannides (see *Ternary compounds, mixed*) 145B (1987) 215

Schottky barrier capacitance (see *Si*) 145B (1987) 39
Semiconductors (see *Fe_{Ga} double acceptor*) 145B (1987) 267
Semiconductors (see *Oscillator strengths*) 145B (1987) 5
Si
– Low temperature radiation damage in silicon. II. Production rates and annealing studies on p-type material - Awadelkarim 145B (1987) 39
Si (see *Subband absorption*) 145B (1987) 29
Sine-Gordon equation
– On one physical solution of the — - Kamensky and Kudriasheva 145B (1987) 353
Soliton solution (see *Sine-Gordon equation*) 145B (1987) 353
Soliton solution (see *Spin-Peierls transition*) 145B (1987) 299
Specific heat (see *Spin-Peierls transition*) 145B (1987) 299

Spin echo (see *Oxidation, internal*) 145B (1987) 165
Spin–lattice relaxation
– The Raman electron — process for diatomic molecules. I. Theory for $Ca(OH)_2:O_2^-$ - Van Velzen and Wenckebach 145B (1987) 85
– The Raman electron — process for diatomic molecules. II. Experiments in $Ca(OH)_2:O_2^-$ - Van Velzen et al. 145B (1987) 101
– Dynamic nuclear polarization and — of the proton spins in $Ca(OH)_2$ - Van der Zon et al. 145B (1987) 153
Spin-Peierls transition
– The intermediate state of the spin-Peierls system TTF–AuBDT: a magnetic and specific heat study - Korving et al. 145B (1987) 299
SQUIDs
– Microwave-induced steps in the current–voltage characteristic of dc squids - Meyer et al. 145B (1987) 137
$SrTiO_3$
– The effect of photoactive light on light scattering in — - Lebedeva et al. 145B (1987) 205
Stewart–McCumber model (see *Josephson junctions*) 145B (1987) 131
Stewart–McCumber model (see *SQUIDs*) 145B (1987) 137
Subband absorption
– Calculation of intersubband resonance in an inversion layer on p-type Si(100) induced by a grating coupler - Tsay and Wang 145B (1987) 29
Superconductivity
– — and magnetic ordering in the mixed ternary $Er_xY_{1-x}Rh_{1.1}Sn_{3.6}$ system - Houwman et al. 145B (1987) 215
– Electromagnetic properties of ferromagnetic superconducting films - Mancini and Noce 145B (1987) 342
Superconductivity, high-T_c
– Superconductivity at 95 K in the single-phase $YBa_2Cu_3O_{9-y}$ system - Kadowaki et al. 145B (1987) 1
– X-ray and electron spin resonance on $YBa_2Cu_3O_{7-\delta}$ prepared by citrate synthesis (*Letter to the editor*) - Blank et al. 145B (1987) 222
– Thermal expansion, compressibility and Grüneisen parameter of $YBa_2Cu_3O_x$ - Salomons et al. 145B (1987) 253
– Coexistence of magnetism and high-T_c superconductivity in $GdBa_2Cu_3O_7$ - Kadowaki et al. 145B (1987) 260
Superexchange interaction
– Influence of Madelung correction on the — - Fuchikami 145B (1987) 171
Superfluid turbulence (see *He II*) 145B (1987) 21

Tantalum (see *Hydrogen diffusion*) 145B (1987) 281
Tb_xFe_{1-x} (see *Rare earth / transition metal alloys*) 145B (1987) 148
Ternary compounds, mixed
– Superconductivity and magnetic ordering in the mixed ternary $Er_xY_{1-x}Rh_{1.1}Sn_{3.6}$ system - Houwman et al. 145B (1987) 215
Ternary compounds, rare earth (see *Magnetic superconducting films*) 145B (1987) 342
Ternary compounds (see *Mössbauer effect, ^{155}Gd*) 145B (1987) 329
Thermodynamic properties (see *LiMg alloy*) 145B (1987) 358
TMNB (see *$N(CH_3)_4NiBr_3$*) 145B (1987) 16

Transistors, bipolar (see *Noise, 1/f*) 145B (1987) 181
Transition temperature (see *Superconductivity, high-T_c*) 145B (1987) 1
TTF–AuBDT (see *Spin-Peierls transition*) 145B (1987) 299
Tunnelling (see *Hydrogen diffusion*) 145B (1987) 281
Tunnelling (see *Hydrogen diffusion*) 145B (1987) 293
Turbulent flow of He II
– On various processes of redistribution of superfluid turbulence in capillary flow of helium II - Marees and van Beelen 145B (1987) 21

Vanadium (see *Hydrogen diffusion*) 145B (1987) 281

X-ray diffraction
– Precision determination of the lattice parameters of CuAuFe alloys - Finkler et al. 145B (1987) 335
X-ray diffraction (see *$YBa_2Cu_3O_{7-\delta}$*) 145B (1987) 222
X-ray emission (see *Plasmon oscillations*) 145B (1987) 45
Xe (see *Liquids at high pressures*) 145B (1987) 50

Y–Ba–Cu–O system (see *Superconductivity, high-T_c*) 145B (1987) 1
$YBa_2Cu_3O_{7-\delta}$
– X-ray and electron spin resonance on — prepared by citrate synthesis (*Letter to the editor*) - Blank et al. 145B (1987) 222
$YBa_2Cu_3O_x$ (see *Superconductivity, high-T_c*) 145B (1987) 253

PHYSICA C

Atomic spectra (see *Gallium*) 145C (1987) 236
Atomic spectra (see *Moment-generated spectra*) 145C (1987) 241

Binary diffusion coefficients (see *N_2*–heavy noble gas mixtures) 145C (1987) 78
Binary diffusion coefficients (see *N_2*–light noble gas mixtures) 145C (1987) 69
Bremsstrahlung, atomic field
– Atomic-field bremsstrahlung from hydrogen, helium, nitrogen and neon from 5 to 15 keV - Estep and Quarles 145C (1987) 369

Diffusion (see *N_2*–heavy noble gas mixtures) 145C (1987) 78
Diffusion (see *N_2*–light noble gas mixtures) 145C (1987) 69

Excited parabolic states (see *Hydrogen*) 145C (1987) 229

Fermi Golden Rule (see *Multiphoton ionization*) 145C (1987) 59

Gallium
– Investigation of the $4s4p^2$ configuration in — - Buurman et al. 145C (1987) 236

Helium (see *Bremsstrahlung, atomic field*) 145C (1987) 369
Hydrogen
– The Stark effect in hydrogen: properties of threshold resonances in the photoionization spectrum of excited parabolic states - Hillard and Glab 145C (1987) 229
Hydrogen (see *Bremsstrahlung, atomic field*) 145C (1987) 369

Ionization, strong-field (see *Multiphoton ionization*) 145C (1987) 59

L-shell X-ray production (see *Yb*) 145C (1987) 249
Loaded sphere model (see N_2–heavy noble gas mixtures) 145C (1987) 78

Moment-generated spectra
– On — of atoms - Bancewicz and Karwowski 145C (1987) 241
Multiphoton ionization
– Power-dependence of strong-field ionization in an N-level system coupled to a continuum - Deng 145C (1987) 59

N_2–heavy noble gas mixtures
– Diffusion in Lorentzian and quasi-Lorentzian — - Wahby 145C (1987) 78
N_2–light noble gas mixtures
– Diffusion in Lorentzian and quasi-Lorentzian — - Wahby and Los 145C (1987) 69
Neon (see *Bremsstrahlung, atomic field*) 145C (1987) 369
Nitrogen (see *Bremsstrahlung, atomic field*) 145C (1987) 369
Non-Kerr media (see *Nonlinear TM-polarized waves*) 145C (1987) 377
Nonlinear TM-polarized waves
– — in non-Kerr media - Langbein et al. 145C (1987) 377

Photoionization (see *Hydrogen*) 145C (1987) 229
Proton-induced ionization (see *Yb*) 145C (1987) 249

Rabi frequencies (see *Multiphoton ionization*) 145C (1987) 59

Stark effect (see *Hydrogen*) 145C (1987) 229
Statistical spectroscopy (see *Moment-generated spectra*) 145C (1987) 241

Yb
– Measurement of L-shell X-ray production cross-sections of — bombarded by 250–400 keV protons - Mohan et al. 145C (1987) 249